# EAST Search History

| Ref # | Hits | Search Query | DBs | Default Operator | Plurals | Time Stamp |
|---|---|---|---|---|---|---|
| S1 | 2 | ("20050014370").PN. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/09/24 13:08 |
| S2 | 50 | ("5193560"\|"5195878"\|"5213485"\|"5221019"\|"5222876"\|"5224504"\|"5236669"\|"5237824"\|"5240390"\|"5243821"\|"5246500"\|"5251776"\|"5267455"\|"5280693"\|"5285352"\|"5288333"\|"5313965"\|"5314574"\|"5328722"\|"5337446"\|"5339844"\|"5355901"\|"5368171"\|"5370741"\|"5377705"\|"5401322"\|"5404894"\|"5412958"\|"5417768"\|"5433334"\|"5447294"\|"5503176"\|"5505219"\|"5509431"\|"5526834"\|"5533538"\|"5571330"\|"5589224"\|"5621982"\|"5629918"\|"5644855"\|"5649809"\|"5656097"\|"5669251"\|"5702228"\|"5706319"\|"5746008"\|"5797719"\|"5798126"\|"5881577").PN. | US-PGPUB; USPAT; USOCR | ADJ | ON | 2005/09/23 22:08 |
| S3 | 52 | ("2617719"\|"2625886"\|"3744660"\|"3968885"\|"4029517"\|"4091643"\|"4245154"\|"4341592"\|"4355937"\|"4367140"\|"4406596"\|"4422651"\|"4474199"\|"4522788"\|"4549467"\|"4592306"\|"4601181"\|"4626509"\|"4670126"\|"4682937"\|"4693777"\|"4749440"\|"4778356"\|"4788043"\|"4789077"\|"4823976"\|"4825808"\|"4827867"\|"4838476"\|"4865061"\|"4879431"\|"4917556"\|"4924892"\|"4951601"\|"4960140"\|"4983223"\|"5011542"\|"5044871"\|"5062770"\|"5071485"\|"5105556"\|"5143103"\|"5167716"\|"5169296"\|"5169408"\|"5185296"\|"5186718"\|"5188515"\|"5190373"\|"5191993").PN. | US-PGPUB; USPAT; USOCR | ADJ | ON | 2005/09/23 22:45 |

| S4 | 50 | ("5882165"\|"5888050"\|"5898727"\|"5900107"\|"5904737"\|"5928389"\|"5932100"\|"5934856"\|"5934991"\|"5979306"\|"5980648"\|"5981399"\|"5989342"\|"6005226"\|"6017820"\|"6029371"\|"6035871"\|"6037277"\|"6053348"\|"6056008"\|"6067728"\|"6077053"\|"6077321"\|"6082150"\|"6085935"\|"6097015"\|"6128830"\|"6145519"\|"6159295"\|"6164297"\|"6186722"\|"6203582"\|"6216364"\|"6228563"\|"6235634"\|"6239038"\|"6241825"\|"6244121"\|"6251250"\|"6277753"\|"6286231"\|"6305677"\|"6334266"\|"6344174"\|"6388317"\|"6389677"\|"6418956"\|"6436824"\|"6454945"\|"6464790").PN. | US-PGPUB; USPAT; USOCR | ADJ | ON | 2005/09/23 23:03 |
|------|------|------|------|------|------|------|
| S5 | 13 | ("0001929"\|"5217043"\|"6521466"\|"6541278"\|"6546946"\|"6550484"\|"6558475"\|"6561213"\|"6561220"\|"6561481"\|"6561767"\|"6564826").PN. | US-PGPUB; USPAT; USOCR | ADJ | ON | 2005/09/23 23:11 |
| S6 | 1 | ("20020001929").PN. | US-PGPUB; USPAT; USOCR | ADJ | ON | 2005/09/23 23:17 |
| S7 | 9 | ("20030205510"\|"20040020518"\|"5186594"\|"5769588"\|"5906866"\|"5975492"\|"6122566"\|"6355072"\|"6454519").PN. | US-PGPUB; USPAT; USOCR | ADJ | ON | 2005/09/23 23:24 |
| S8 | 11 | ("20010050096"\|"3623627"\|"4426358"\|"4574184"\|"5374829"\|"5474410"\|"5879459"\|"6048494"\|"6062853"\|"6089377"\|"6406782").PN. | US-PGPUB; USPAT; USOCR | ADJ | ON | 2005/09/23 23:29 |
| S9 | 8 | ("20030005948"\|"3681171"\|"4827867"\|"5009738"\|"6221781"\|"6306564"\|"6497239").PN. | US-PGPUB; USPAT; USOCR | ADJ | ON | 2005/09/23 23:36 |
| S10 | 9 | ("3689025"\|"5679169"\|"6021791"\|"6109296"\|"6465403"\|"6508259"\|"6509141"\|"6635565"\|"6641678").PN. | US-PGPUB; USPAT; USOCR | ADJ | ON | 2005/09/23 23:46 |
| S11 | 2 | (("20030036023") or ("20040134515")).PN. | US-PGPUB | OR | OFF | 2005/09/23 23:49 |
| S12 | 2 | (("5494526") or ("6333268")).PN. | US-PGPUB; USPAT | OR | OFF | 2005/09/23 23:52 |
| S13 | 15 | ("5306350"\|"5772783"\|"5850747"\|"5858107"\|"5943721"\|"5946945"\|"5970554"\|"6070440"\|"6264753"\|"6612317"\|"6736149"\|"6764552"\|"6805801"\|"6851148"\|"6874513").PN. | US-PGPUB; USPAT; USOCR | ADJ | ON | 2005/09/24 16:11 |
| S14 | 1 | "20030051741".pn. | US-PGPUB; USPAT; USOCR | ADJ | ON | 2005/09/24 00:11 |

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|---|---|---|---|---|---|---|
| S15 | 3 | "2873597".pn. | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2005/09/24 13:08 |
| S16 | 6018 | ((118/715,733) or (156/345.29)).<br>CCLS. | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/09/24 16:21 |
| S17 | 1111 | S16 and ((supercritical) or<br>pressur$3 or pressuriz$4) and seal | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2005/09/24 16:30 |
| S18 | 1580 | S16 and ((supercritical) or<br>pressur$3 or pressuriz$4) and<br>seal$4 | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2005/09/24 16:31 |
| S19 | 105 | S18 and piston | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2005/09/24 16:35 |
| S20 | 3 | (upper element) same (lower<br>element) same (seal energizer) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2005/09/24 19:43 |
| S21 | 224 | (upper element) same (lower<br>element) same (seal) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2005/09/24 19:43 |
| S22 | 4 | S21 and supercritical | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2005/09/24 19:43 |

# EAST Search History

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|---|---|---|---|---|---|---|
| S23 | 10 | (seal$3 same (cavity or chamber) same (first pressure) same (second pressure)) and supercritical | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2005/09/24 21:37 |
| S24 | 259 | (seal$3 and (cavity or chamber) and (first pressure) and (second pressure)) and supercritical | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2005/09/24 21:39 |
| S25 | 249 | (seal$3 and (cavity or chamber) and ((first pressure) same (second pressure))) and supercritical | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2005/09/24 22:09 |
| S26 | 249 | S25 and (@ad<="200300210" or @rlad<="20030210") | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2005/09/24 21:42 |
| S27 | 241 | S25 and (@ad<="20030210" or @rlad<="20030210") | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2005/09/24 21:43 |
| S28 | 29 | S27 and piston | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2005/09/24 21:43 |
| S29 | 1 | (seal$3 and (cavity or chamber) and ((first pressure) same (second pressure))) and supercritical | EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2005/09/24 22:09 |
| S30 | 235 | (seal$3 and (cavity or chamber) and ((first pressure) same (second pressure))) | EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2005/09/24 22:10 |
| S31 | 7 | S30 and (c23c016$ or h01l021$). ipc. | EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2006/07/08 19:22 |

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|---|---|---|---|---|---|---|
| S32 | 1651 | (438/689).CCLS. | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/12/12 00:52 |
| S33 | 21 | S32 and supercritical | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2005/12/12 00:56 |
| S34 | 2 | S33 and (control$3 same seal$3) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2005/12/12 00:58 |
| S35 | 1376 | supercritical and (control$3 same seal$3) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2005/12/12 00:59 |
| S36 | 30 | supercritical same (control$3 same seal$3) same var$4 | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2005/12/12 01:02 |
| S37 | 216 | supercritical and ((control$3 same seal$3) same var$4) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2005/12/12 01:02 |
| S38 | 99 | S37 and (@pd<="20031006") | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2005/12/12 01:04 |
| S39 | 75 | S38 not S36 | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2005/12/12 01:04 |

| S40 | 4 | (("6596093") or ("20030196679")). PN. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2006/01/23 15:22 |
|---|---|---|---|---|---|---|
| S41 | 3 | ("2873597").PN. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2006/01/23 19:31 |
| S42 | 6131 | ((118/715,733) or (156/345.29)). CCLS. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2006/01/23 19:38 |
| S43 | 1634 | S42 and ((supercritical) or pressur$3 or pressuriz$4) and seal$4 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2006/01/23 19:38 |
| S44 | 112 | S43 and piston | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2006/01/23 19:38 |
| S45 | 3 | (upper element) same (lower element) same (seal energizer) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2006/01/23 19:38 |
| S46 | 225 | (upper element) same (lower element) same (seal) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2006/01/23 19:38 |
| S47 | 4 | S46 and supercritical | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2006/01/23 19:38 |

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| S48 | 278 | (seal$3 and (cavity or chamber) and (first pressure) and (second pressure)) and supercritical | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2006/01/23 19:38 |
| S49 | 268 | (seal$3 and (cavity or chamber) and ((first pressure) same (second pressure))) and supercritical | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2006/01/23 19:38 |
| S50 | 249 | S49 and (@ad<="20030210" or @rlad<="20030210") | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2006/01/23 19:38 |
| S51 | 30 | S50 and piston | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2006/01/23 19:38 |
| S52 | 1667 | (438/689).CCLS. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2006/01/23 19:38 |
| S53 | 22 | S52 and supercritical | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2006/01/23 19:38 |
| S54 | 2 | S53 and (control$3 same seal$3) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2006/01/23 19:38 |
| S55 | 31 | supercritical same (control$3 same seal$3) same var$4 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2006/01/23 19:38 |

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| S56 | 219 | supercritical and ((control$3 same seal$3) same var$4) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2006/01/23 19:38 |
| S57 | 32 | (S43 S44 S45 S46 S47 S48 S49 S51 S53 S54 S55 S56) AND (@ad<="20030210" or @rlad<="20030210") and @pd>="20050924" | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/07/08 18:13 |
| S58 | 2 | ("6764212").PN. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2006/04/06 12:35 |
| S59 | 6331 | ((118/715,733) or (156/345.29)). CCLS. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2006/07/08 18:14 |
| S60 | 1714 | S59 and ((supercritical) or pressur$3 or pressuriz$4) and seal$4 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2006/07/08 18:14 |
| S61 | 118 | S60 and piston | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2006/07/08 18:14 |
| S62 | 3 | (upper element) same (lower element) same (seal energizer) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2006/07/08 18:14 |
| S63 | 229 | (upper element) same (lower element) same (seal) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2006/07/08 18:14 |

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|---|---|---|---|---|---|---|
| S64 | 4 | S63 and supercritical | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2006/07/08 18:14 |
| S65 | 300 | (seal$3 and (cavity or chamber) and (first pressure) and (second pressure)) and supercritical | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2006/07/08 18:14 |
| S66 | 290 | (seal$3 and (cavity or chamber) and ((first pressure) same (second pressure))) and supercritical | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2006/07/08 18:14 |
| S67 | 263 | S66 and (@ad<="20030210" or @rlad<="20030210") | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2006/07/08 18:14 |
| S68 | 31 | S67 and piston | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2006/07/08 18:14 |
| S69 | 1765 | (438/689).CCLS. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2006/07/08 18:14 |
| S70 | 22 | S69 and supercritical | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2006/07/08 18:14 |
| S71 | 2 | S70 and (control$3 same seal$3) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2006/07/08 18:14 |

| S72 | 31 | supercritical same (control$3 same seal$3) same var$4 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2006/07/08 18:14 |
|-----|-----|-----|-----|-----|-----|-----|
| S73 | 254 | supercritical and ((control$3 same seal$3) same var$4) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2006/07/08 18:14 |
| S74 | 70 | (S60 S61 S62 S63 S64 S65 S66 S68 S70 S71 S72 S73) AND (@ad<="20030210" or @rlad<="20030210") and @pd>="20060123" | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/07/08 18:35 |
| S75 | 32 | seal energizer | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2006/07/08 18:46 |
| S76 | 4 | S75 and supercritical | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2006/07/08 18:50 |
| S77 | 40 | supercritical and (seal$3 force) and rang$3 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2006/07/08 20:03 |
| S78 | 517 | supercritical and (c23c016$ or h01l021$) | EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2006/07/08 19:23 |
| S79 | 33 | S78 and seal$3 | EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2006/07/08 19:23 |
| S80 | 464 | supercritical and non-linear$4 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2006/07/08 20:04 |

# EAST Search History

| S81 | 31 | supercritical and (non-linear$4 same (seal$3 or force)) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2006/07/08 20:10 |
| --- | --- | --- | --- | --- | --- | --- |
| S82 | 9 | supercritical and (non-linear$4 same (seal$3)) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2006/07/08 20:11 |
| S83 | 24 | supercritical and (non-linear$4 and (seal$3) and algorithm) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2006/07/08 20:12 |